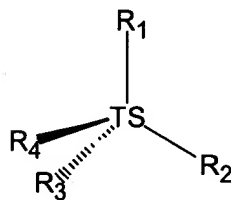


IN THE CLAIMS:

1. (Currently amended) A tetrahedral compound having formula (I),

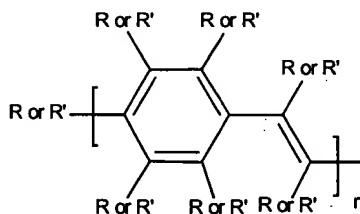


wherein TS is a tetrahedral junction unit selected from the group consisting of tetraphenylsilane, an sp^3 hybridized silicon atom, tetraphenyladamantane, adamantane and cubane; and R1, R2, R3 and R4 are ~~each organic, inorganic or hybrid~~ optoelectronic arms, wherein each optoelectronic arm is a linear oligomer, polymer or copolymer.

2. (Currently amended) The tetrahedral compound of claim 1 wherein each optoelectronic arm is a semiconducting ~~monomer~~, oligomer, polymer or copolymer.

3. (Original) The tetrahedral compound of claim 1, each optoelectronic arm comprising a stilbenoid chromophore.

4. (Currently amended) The tetrahedral compound of claim 1 wherein R1, R2, R3 and R4 are optoelectronic arms corresponding to general formula II:



II

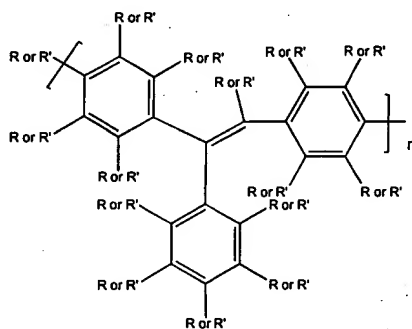
wherein R is hydrogen; R' is alkoxy alkyl, aryl, aryloxy, cyano, halide or amino; and n is an integer from ± 2 to 100.

5. (Withdrawn) The tetrahedral compound of claim 4 selected from the group consisting of tetrakis(4-(3',5'-di-*tert*-butylstyryl)stilbenyl)methane, tetrakis(4-(4'-(4''-*tert*-butylstyryl)styryl)stilbenyl)methane, tetrakis(4-(4'-(3'',5''-dihexyloxystyryl)styryl)stilbenyl)methane, tetrakis((4-(2'5'-dioctyloxy-4'styryl)styryl)stilbenyl)methane and tetrakis((4-(2',5'-dioctyloxy-4'-(4''-(2''',5'''-dioctyloxy-4''' styryl)styryl)styryl)stilbenyl)methane.

6. (Canceled)

7. (Currently amended) The tetrahedral compound of claim 6 selected from the group consisting of tetrastilbenyladamantane, tetrastilbenylsilane, tetrakis(4-*tert*-butylstyrylstilbenyl)adamantane and tetrakis(4-*tert*-butylstyrylstilbenyl)silane.

8. (Withdrawn) The tetrahedral compound of claim 1 wherein R1, R2, R3 and R4 are optoelectronic arms corresponding to general formula III:

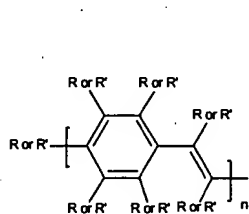


III

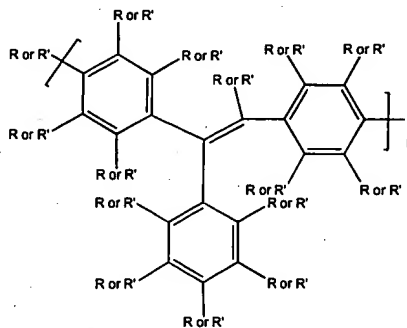
wherein R is hydrogen; R' is alkoxy alkyl, aryl, aryloxy, cyano, halide or amino; and n is an integer from 1 to 100.

9. (Withdrawn) The tetrahedral compound of claim 8 selected from the group consisting of tetrakis(4,4'-(2,2-diphenyl-vinyl)-1,1'-biphenyl)-methane and tetrakis(4,4'-(3,3-diphenylacrylonitrile)-1,1'-biphenyl)methane.

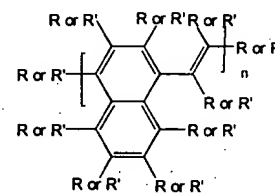
10. (Currently amended) The tetrahedral compound of claim 1 wherein R1, R2, R3, and R4 are each independently optoelectronic arms corresponding to formula (II) through formula (LXVIII):



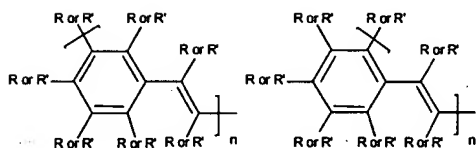
II



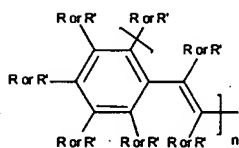
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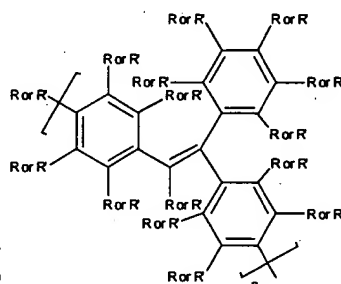
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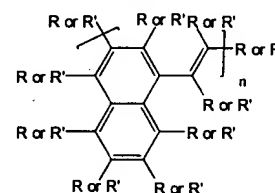
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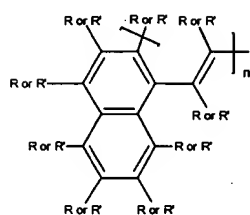
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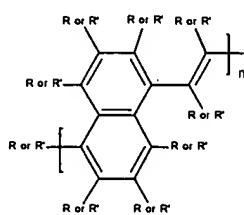
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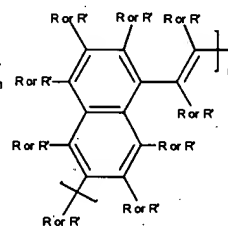
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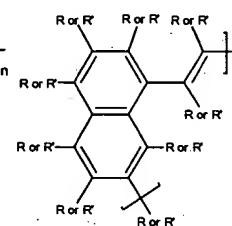
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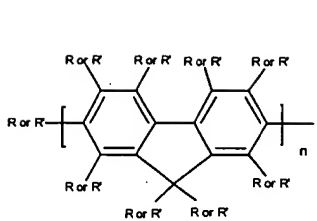
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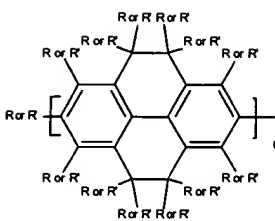
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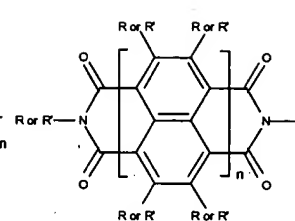
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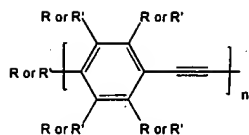
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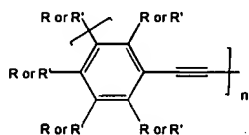
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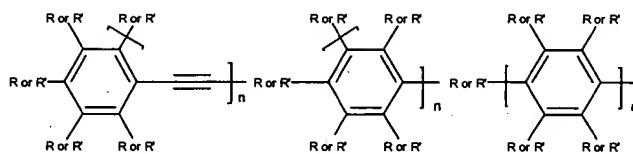
XV



XVI



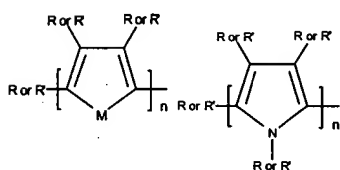
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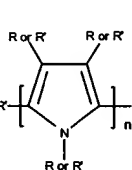
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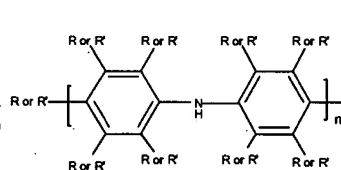
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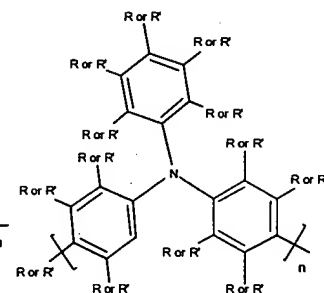
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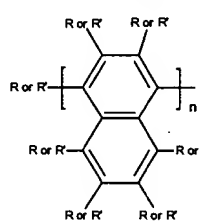
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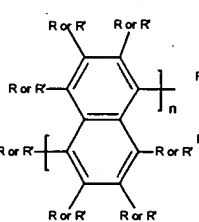
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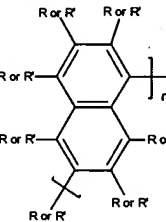
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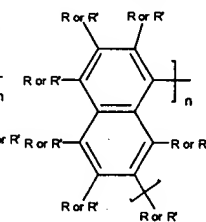
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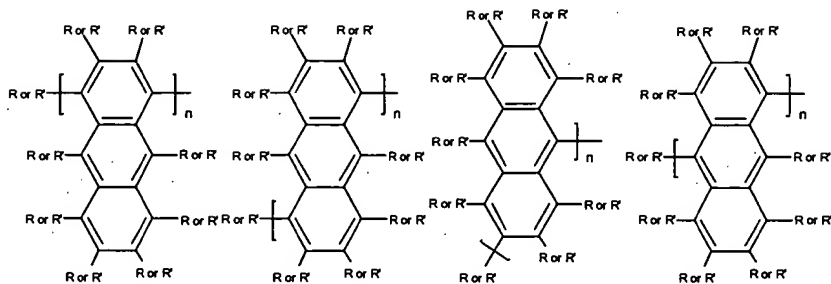
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XXVII



XXVIII

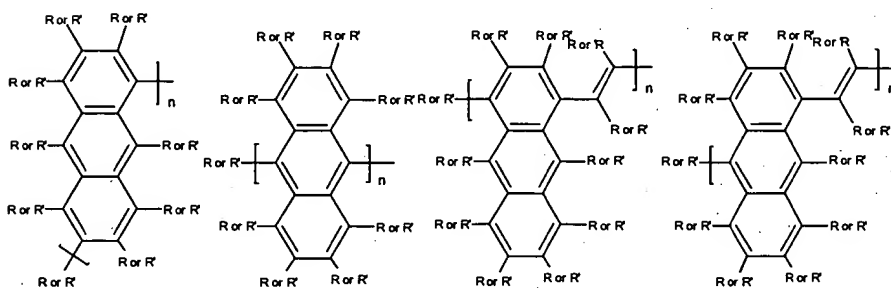


XXIX

XXX

XXXI

XXXII

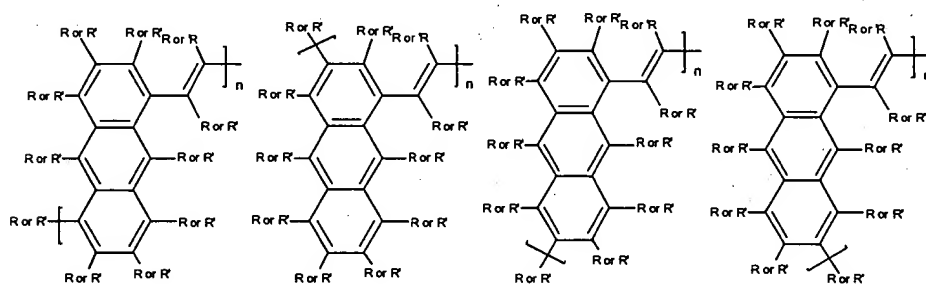


XXXIII

XXXIV

XXXV

XXXVI

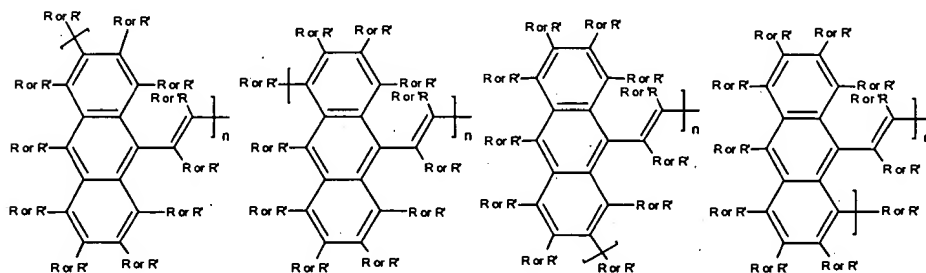


XXXVII

XXXVIII

XXXIX

XL

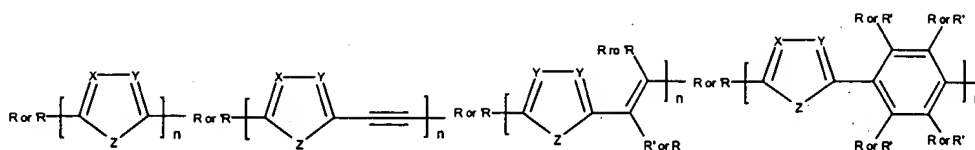


XLI

XLII

XLIII

XLIV

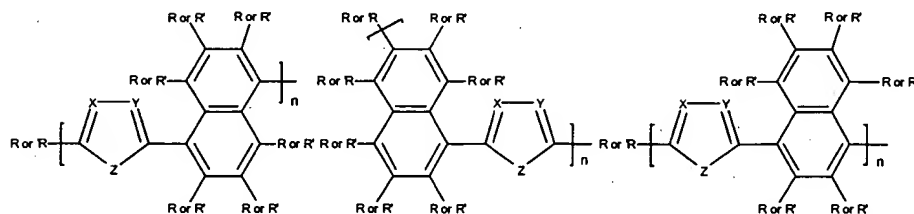


XLV

XLVI

XLVII

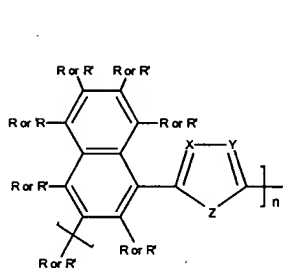
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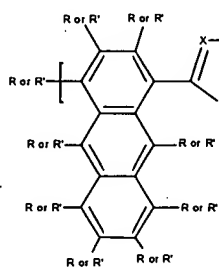
XLIX

L

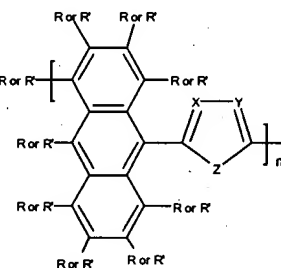
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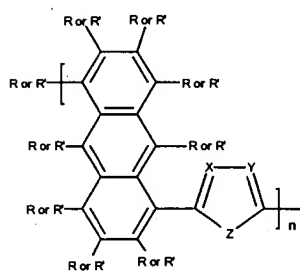
LII



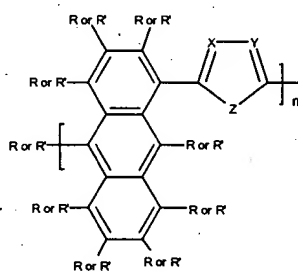
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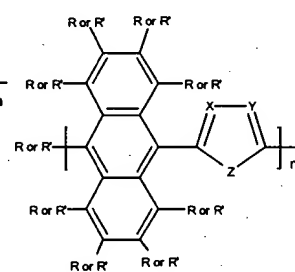
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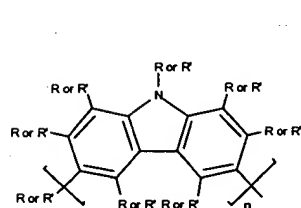
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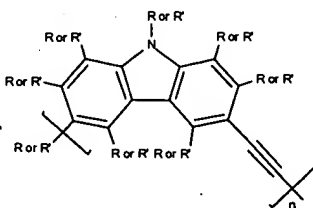
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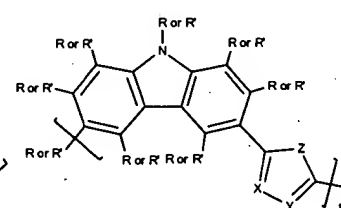
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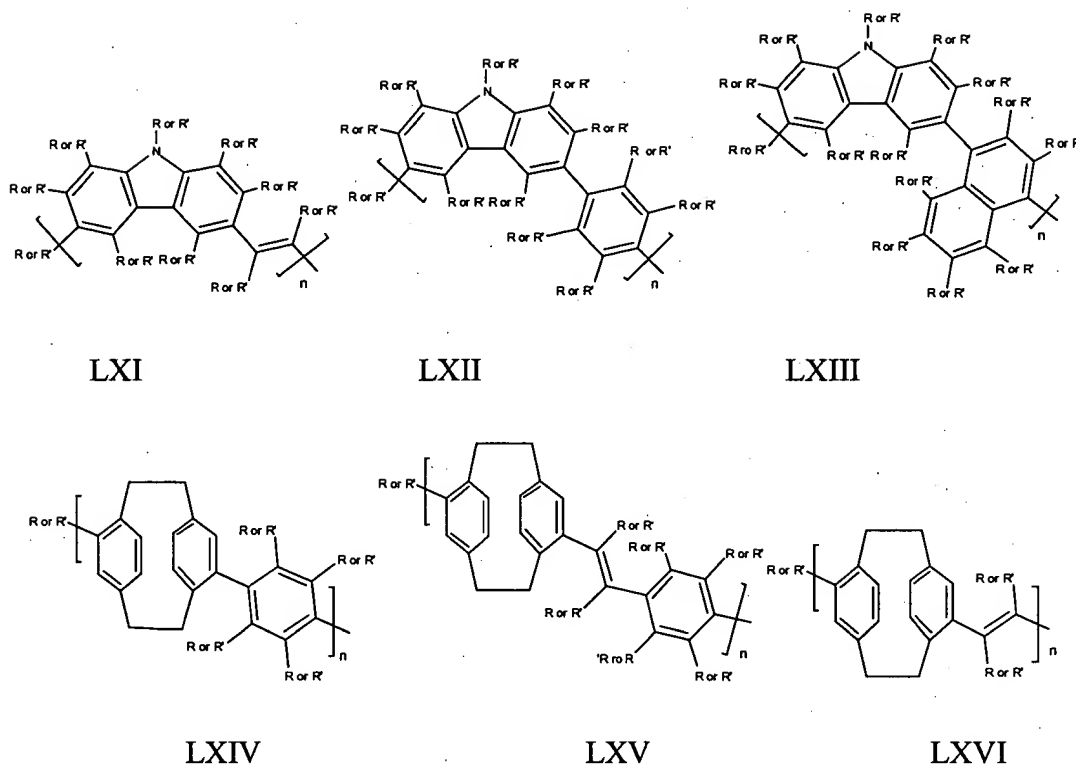
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LIX

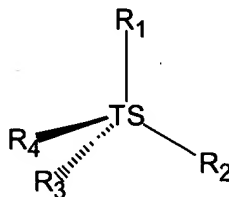


LX



wherein R is hydrogen; R' is selected from the group consisting of alkoxy, alkyl, aryl, aryloxy, cyano, halide and amido; n is an integer from ± 2 to 100; X and Y are independently selected from the group consisting of C-R', CR, ~~NR~~ and ~~NR'~~ nitrogen; Z is selected from the group consisting of ~~OR~~, ~~OR'~~ oxygen, SR, SR' NR, NR', CRR', -CH=CH-R, -CH=CH-R', and CN; and M in formula XXI is selected from the group consisting of sulfur, selenium and tellurium.

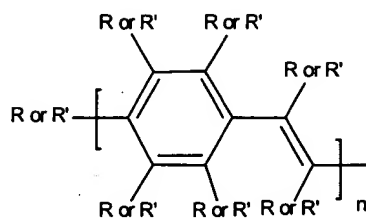
11. (Currently amended) A tetrahedral compound having formula (I),



(I)

wherein TS is a tetrahedral junction unit selected from the group consisting of ~~tetraphenylmethane~~, tetraphenylsilane, an sp^3 hybridized silicon atom, tetraphenyladamantane,

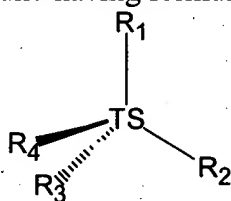
adamantane and cubane; and R_1 , R_2 , R_3 and R_4 are each optoelectronic arms corresponding to general formula II:



II

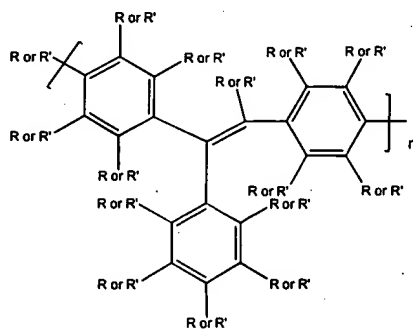
wherein R is hydrogen; R' is alkoxy, alkyl, aryl, aryloxy, cyano, halide, or amino; and n is an integer from 2 to 100.

12. (Withdrawn) A tetrahedral compound having formula (I),



(I)

wherein TS is a tetrahedral junction unit selected from the group consisting of tetraphenylmethane, tetraphenylsilane, an sp^3 hybridized carbon or silicon atom, tetraphenyladamantane, adamantane and cubane; R_1 , R_2 , R_3 and R_4 are each optoelectronic arms corresponding to general formula III:



III

wherein R is hydrogen; R' is alkoxy alkyl, aryl, aryloxy, cyano, halide or amino; and n is an integer from 1 to 100.

13. (Original) A composition comprising a tetrahedral compound according to claim 1.
14. (Original) A composition according to claim 13 further comprising an electron or hole transport agent.
15. (Withdrawn) A method of making the tetrahedral compound of claim 1 having one or more optoelectronic chromophore arms attached to a tetrahedral junction site, the method comprising the steps of:
 - (a) providing a tetrahedral junction molecule having four reactive functionalities;
 - (b) providing one or more optoelectronic chromophore units, each unit having a single complementary functionality capable of reacting with a reactive functionality; and
 - (c) reacting one or more the reactive functionalities with one or more complementary functionalities, thereby linking one or more optoelectronic chromophore units to the tetrahedral junction site.
16. (Withdrawn) The method of claim 15 wherein the tetrahedral junction molecule is halogenated tetraphenylmethane, tetraphenylsilane, or tetraphenyladamantane.
17. (Withdrawn) The method of claim 16 wherein the tetrahedral junction group is tetrakis(4-bromophenyl)methane, tetrakis(4-iodophenyl)methane, tetrakis(4-iodophenyl)adamantane, or tetrakis(4-bromophenyl)silane
18. (Withdrawn) The method of claim 15 wherein the optoelectronic chromophore units are conjugated organic compounds selected from the group consisting of styrene, stilbenyl derivatives, and triphenylethylene derivatives.

19. (Withdrawn) The method of claim 15 wherein the reactive functionalities are selected from the group consisting of aryl halides, olefins, acetylenes, boronic esters, and carbonyls.

20. (Withdrawn) The method of claim 15 wherein the complementary functionalities are selected from the group consisting of aryl halides, olefins, acetylenes, boronic esters, and carbonyls.

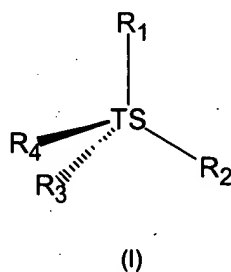
21. (Withdrawn) The method of claim 15 wherein the optoelectronic chromophore unit is selected from the group consisting of styrene 4,4'-*tert*-butylvinylstilbene, 1-(4'-*tert*-butylstyryl)-4-(4'-vinylstyryl)benzene, 4-(3',5'-di-*tert*-butylstyryl)styrene, 1-(3'5'-di-*tert*-butylstyryl)-4-(4'-vinylstyryl)benzene, 2,5-dioctyloxy-1-styryl-4-(4'-vinylstyryl)benzene, 1-vinyl-4-(3'5'-dihexyloxytyryl)stilbene, 1,1-diphenyl-2-(4-dihydroxyboronphenyl)-ethene and 2-(4-pinacolatoboronphenyl)-3,3-diphenylacrylonitrile.

22. (Original) A thin-film electronic device comprising the tetrahedral compound of claim 1.

23. (Original) A thin film electronic device comprising the composition of claim 14.

24. (Original) The device of Claim 22 comprising at least two layers selected from the group consisting of an electroluminescent layer, an electron transport layer, and a hole transport layer, wherein at least one of said electroluminescent layer, said electron transport layer, or said hole transport layer comprises the tetrahedral compound.

25. (New) A tetrahedral compound having formula (I),



wherein TS is a tetrahedral junction unit selected from the group consisting of tetraphenylsilane, an sp^3 hybridized silicon atom, tetraphenyladamantane, adamantane and cubane; and R1, R2, R3 and R4 are optoelectronic arms, each optoelectronic arm comprising a stilbenoid chromophore.

Should there be any questions, the Examiner is encouraged to telephone Robert Berliner of this office.

Respectfully submitted,

Dated: December 30, 2003



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Registration No. 39,944

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